



ELSEVIER

Research Policy 25 (1997) 1297-1301

research
policy

Author Index Volume 25 (1997)

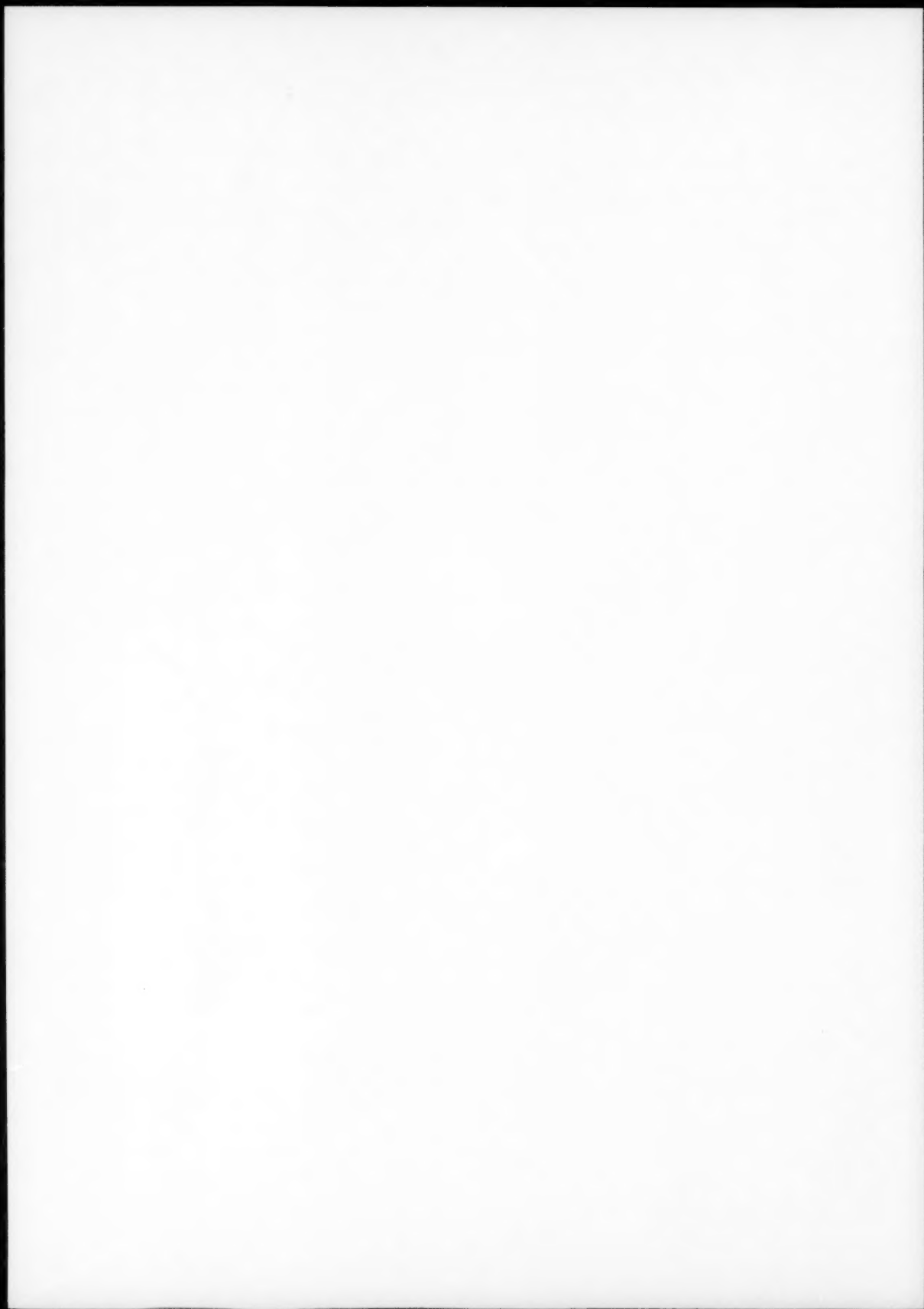
Aram, J.D., <i>see</i> Lynn, L.H.	91
Arora, A., <i>see</i> Kelley, M.R.	265
Baldwin, J.R. and J. Johnson, Business strategies in more- and less-innovative firms in Canada	785
Ball, D.F., <i>see</i> Hutcheson, P.	25
Bozeman, B., <i>see</i> Kingsley, G.	967
Brouwer, E. and A. Kleinknecht, Measuring the unmeasurable: a country's non-R&D expenditure on product and service innovation	1235
Buesa, M., <i>see</i> Molero, J.	647
Chen, C.-F. and G. Sewell, Strategies for technological development in South Korea and Taiwan: the case of semiconductors	759
Clarysse, B., K. Debackere and M.A. Rappa, Modeling the persistence of organizations in an emerging field: the case of hepatitis C	671
Coker, K., <i>see</i> Kingsley, G.	967
Colombo, M.G. and P. Garrone, Technological cooperative agreements and firm's R&D intensity. A note on causality relations	923
Coombs, R., P. Narandren and A. Richards, A literature-based innovation output indicator	403
Daniels, P.L., National technology gaps and trade — an empirical study of the influence of globalisation	1189
Da Silva, J.M., <i>see</i> Possas, M.L.	933
Davis, C.H., <i>see</i> Eisemon, T.O.	107
Debackere, K., <i>see</i> Clarysse, B.	671
De Looze, M.-A., <i>see</i> Joly, P.-B.	1027
De Marchi, M., G. Napolitano and P. Taccini, Testing a model of technological trajectories	13
Duysters, G. and J. Hagedoorn, Internationalization of corporate technology through strategic partnering: an empirical investigation	1
Dvir, D., <i>see</i> Shenhar, A.J.	607
Edge, D., <i>see</i> Williams, R.	865
Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard, Reforming Romania's national research system	107
Esubiyi, A.O., <i>see</i> Oyelaran-Oyeyinka, B.	1081
Evangelista, R., <i>see</i> Vivarelli, M.	1013
Feller, I., A. Glasmeier and M. Mark, Issues and perspectives on evaluating manufacturing modernization programs	309
Foss, K., Transaction costs and technological development: the case of the Danish fruit and vegetable industry	531

- Furtado, A., The French system of innovation in the oil industry some lessons about the role of public policies and sectoral patterns of technological change in innovation networking 1243
- Gaillard, J., *see* Eisemon, T.O. 107
- Garrone, P., *see* Colombo, M.G. 923
- Gauthier, É., *see* Leydesdorff, L. 431
- Glasmeier, A., *see* Feller, I. 309
- Godin, B., Research and the practice of publication in industries 587
- Gruber, H., Trade policy and learning by doing: the case of semiconductors 723
- Hagedoorn, J., *see* Duysters, G. 1
- Hartnell, G., The innovation of agrochemicals: regulation and patent protection 379
- Hesselink, F.Th., *see* Moed, H.F. 819
- Hicks, D.M., P.A. Isard and B.R. Martin, A morphology of Japanese and European corporate research networks 359
- Hirasawa, R., *see* Tanaka, Y. 999
- Hollenstein, H., A composite indicator of a firm's innovativeness. An empirical analysis based on survey data for Swiss manufacturing 633
- Howells, J., Rethinking the market-technology relationship for innovation 1209
- Hutcheson, P., A.W. Pearson and D.F. Ball, Sources of technical innovation in the network of companies providing chemical process plant and equipment 25
- Ionescu-Sisesti, I., *see* Eisemon, T.O. 107
- Isard, P.A., *see* Hicks, D.M. 359
- Jacobsson, S., C. Oskarsson and J. Philipson, Indicators of technological activities – comparing educational, patent and R&D statistics in the case of Sweden 573
- Johnson, J., *see* Baldwin, J.R. 785
- Joly, P.-B. and M.-A. de Looze, An analysis of innovation strategies and industrial differentiation through patent applications: the case of plant biotechnology 1027
- Joly, P.B. and V. Mangematin, Profile of public laboratories, industrial partnerships and organisation of R&D: the dynamics of industrial relationships in a large research organisation 901
- Kamath, R.R., *see* Liker, J.K. 59
- Kauko, K., Effectiveness of R&D subsidies – a sceptical note on the empirical literature 321
- Kelley, M.R. and A. Arora, The role of institution-building in US industrial modernization programs 265
- Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R&D value-mapping' approach to evaluation 967
- Klaes, M., Sociotechnical constituencies, game theory, and the diffusion of compact discs. An inter-disciplinary investigation into the market for recorded music 1221
- Kleinknecht, A., *see* Brouwer, E. 1235
- Korevaar, J.C., *see* Tijssen, R.J.W. 1277
- Kumar, N. and M. Saqib, Firm size, opportunities for adaptation and in-house R&D activity in developing countries: the case of Indian manufacturing 713
- Laditan, G.O.A., *see* Oyelaran-Oyeyinka, B. 1081
- Langlois, R.N., *see* Mowery, D.C. 947
- Lanjouw, J.O. and A. Mody, Innovation and the international diffusion of environmentally responsive technology 549
- Laursen, K., Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals 1121

- Lee, J.-Y., *see* Mansfield, E. 1047
- Lee, K.R., The role of user firms in the innovation of machine tools: The Japanese case 491
- Lee, M., B. Son and K. Om, Evaluation of national R&D projects in Korea 805
- Lee, Y.S., 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration 843
- Leoncini, R., M.A. Maggioni and S. Montresor, Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany 415
- Leydesdorff, L. and É. Gauthier, The evaluation of national performance in selected priority areas using scientometric methods 431
- Liker, J.K., R.R. Kamath, S. Nazli Wasti and M. Nagamachi, Supplier involvement in automotive component design: are there really large US Japan differences? 59
- Link, A.N., On the classification of industrial R&D 397
- Luria, D. and E. Wiarda, Performance benchmarking and measuring program impacts on customers: lessons from the Midwest Manufacturing Technology Center 233
- Lynn, L.H., N.M. Reddy and J.D. Aram, Linking technology and institutions: the innovation community framework 91
- Macho-Stadler, I., X. Martinez-Giralt and J.D. Pérez-Castrillo, The role of information in licensing contract design 43
- Maggioni, M.A., *see* Leoncini, R. 415
- Malerba, F. and L. Orsenigo, Schumpeterian patterns of innovation are technology-specific 451
- Mangematin, V., *see* Joly, P.B. 901
- Mansfield, E. and J.-Y. Lee, The modern university: contributor to industrial innovation and recipient of industrial R&D support 1047
- Mark, M., *see* Feller, I. 309
- Martin, B.R., *see* Hicks, D.M. 359
- Martinez-Giralt, X., *see* Macho-Stadler, I. 43
- Mian, S.A., Assessing value-added contributions of university technology business incubators to tenant firms 325
- Mody, A., *see* Lanjouw, J.O. 549
- Moed, H.F. and F.Th. Hesselink, The publication output and impact of academic chemistry research in the Netherlands during the 1980s: bibliometric analyses and policy implications 819
- Molero, J. and M. Buesa, Patterns of technological change among Spanish innovative firms: the case of the Madrid region 647
- Montresor, S., *see* Leoncini, R. 415
- Mowery, D.C. and R.N. Langlois, Spinning off and spinning on(?): the federal government role in the development of the US computer software industry 947
- Nagamachi, M., *see* Liker, J.K. 59
- Napolitano, G., *see* De Marchi, M. 13
- Narandren, P., *see* Coombs, R. 403
- Nazli Wasti, S., *see* Liker, J.K. 59
- Numagami, T., Flexibility trap: a case analysis of U.S. and Japanese technological choice in the digital watch industry 133
- Odagiri, H. and H. Yasuda, The determinants of overseas R&D by Japanese firms: an empirical study at the industry and company levels 1059
- Oldsman, E., Does manufacturing extension matter? An evaluation of the Industrial Technology Extension Service in New York 215

- Om, K., *see* Lee, M. 805
- Orsenigo, L., *see* Malerba, F. 451
- Oskarsson, C., *see* Jacobsson, S. 573
- Oyelaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi, Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria 1081
- Pearson, A.W., *see* Hutcheson, P. 25
- Penan, H., R&D strategy in a techno-economic network: Alzheimer's disease therapeutic strategies 337
- Pérez-Castrillo, J.D., *see* Macho-Stadler, I. 43
- Philipson, J., *see* Jacobsson, S. 573
- Pianta, M., *see* Vivarelli, M. 1013
- Piergiovanni, R., *see* Santarelli, E. 689
- Pisano, G.P., Learning-before-doing in the development of new process technology 1097
- Possas, M.L., S. Salles-Filho and J.M. da Silveira, An evolutionary approach to technological innovation in agriculture: some preliminary remarks 933
- Prencipe, A., Technological competencies and product's evolutionary dynamics a case study from the aero-engine industry 1261
- Prevezer, M., *see* Swann, P. 1139
- Rappa, M.A., *see* Clarysse, B. 671
- Reddy, N.M., *see* Lynn, L.H. 91
- Richards, A., *see* Coombs, R. 403
- Roessner, J.D., *see* Shapira, P. 181
- Roessner, J.D., *see* Shapira, P. 185
- Rosenfeld, S.A., Does cooperation enhance competitiveness? Assessing the impacts of inter-firm collaboration 247
- Sabel, C.F., A measure of federalism: assessing manufacturing technology centers 281
- Salles-Filho, S., *see* Possas, M.L. 933
- Santarelli, E. and R. Piergiovanni, Analyzing literature-based innovation output indicators: the Italian experience 689
- Saqib, M., *see* Kumar, N. 713
- Sewell, G., *see* Chen, C.-F. 759
- Shapira, P. and J.D. Roessner, Evaluating industrial modernization: Introduction to the theme issue 181
- Shapira, P., J. Youtie and J.D. Roessner, Current practices in the evaluation of US industrial modernization programs 185
- Shenhar, A.J. and D. Dvir, Toward a typological theory of project management 607
- Son, B., *see* Lee, M. 805
- Sternberg, R.G., Government R&D expenditure and space: empirical evidence from five industrialized countries 741
- Swann, P. and M. Prevezer, A comparison of the dynamics of industrial clustering in computing and biotechnology 1139
- Taccini, P., *see* De Marchi, M. 13
- Tanaka, Y. and R. Hirasawa, Features of policy-making processes in Japan's Council for Science and Technology 999
- Teubal, M., A catalytic and evolutionary approach to horizontal technology policies (HTPs) 1161
- Tijssen, R.J.W. and J.C. Korevaar, Unravelling the cognitive and interorganisational structure of public/private R&D networks: A case study of catalysis research in the Netherlands 1277

- Vivarelli, M., R. Evangelista and M. Pianta, Innovation and employment in Italian manufacturing industry 1013
- Walsh, V., Design, innovation and the boundaries of the firm 509
- Wiarda, E., *see* Luria, D. 233
- Williams, R. and D. Edge, The social shaping of technology 865
- Yasuda, H., *see* Odagiri, H. 1059
- Yinnon, A.T., The shift to knowledge-intensive production in the plastics-processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel 163
- Youtie, J., *see* Shapira, P. 185





ELSEVIER

Research Policy 25 (1997) 1303–1316

research
policy

Subject Index Volume 25 (1997)

Business

- Duysters, G. and J. Hagedoorn, Internationalization of corporate technology through strategic partnering: an empirical investigation 1
- De Marchi, M., G. Napolitano and P. Taccini, Testing a model of technological trajectories 13
- Hutcheson, P., A.W. Pearson and D.F. Ball, Sources of technical innovation in the network of companies providing chemical process plant and equipment 25
- Macho-Stadler, I., X. Martinez-Giralt and J.D. Pérez-Castrillo, The role of information in licensing contract design 43
- Liker, J.K., R.R. Kamath, S. Nazli Wasti and M. Nagamachi, Supplier involvement in automotive component design: are there really large US Japan differences? 59
- Lynn, L.H., N.M. Reddy and J.D. Aram, Linking technology and institutions: the innovation community framework 91
- Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard, Reforming Romania's national research system 107
- Numagami, T., Flexibility trap: a case analysis of U.S. and Japanese technological choice in the digital watch industry 133
- Yinnon, A.T., The shift to knowledge-intensive production in the plastics-processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel 163
- Shapira, P. and J.D. Roessner, Evaluating industrial modernization: Introduction to the theme issue 181
- Shapira, P., J. Youtie and J.D. Roessner, Current practices in the evaluation of US industrial modernization programs 185
- Oldsman, E., Does manufacturing extension matter? An evaluation of the Industrial Technology Extension Service in New York 215
- Luria, D. and E. Wiarda, Performance benchmarking and measuring program impacts on customers: lessons from the Midwest Manufacturing Technology Center 233
- Rosenfeld, S.A., Does cooperation enhance competitiveness? Assessing the impacts of inter-firm collaboration 247
- Kelley, M.R. and A. Arora, The role of institution-building in US industrial modernization programs 265
- Sabel, C.F., A measure of federalism: assessing manufacturing technology centers 281
- Feller, I., A. Glasmeier and M. Mark, Issues and perspectives on evaluating manufacturing modernization programs 309

Kauko, K., Effectiveness of R&D subsidies – a sceptical note on the empirical literature	321
Mian, S.A., Assessing value-added contributions of university technology business incubators to tenant firms	325
Penan, H., R&D strategy in a techno-economic network: Alzheimer's disease therapeutic strategies	337
Hicks, D.M., P.A. Isard and B.R. Martin, A morphology of Japanese and European corporate research networks	359
Hartnell, G., The innovation of agrochemicals: regulation and patent protection	379
Link, A.N., On the classification of industrial R&D	397
Coombs, R., P. Narandren and A. Richards, A literature-based innovation output indicator	403
Leoncini, R., M.A. Maggioni and S. Montresor, Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany	415
Leydesdorff, L. and É. Gauthier, The evaluation of national performance in selected priority areas using scientometric methods	431
Malerba, F. and L. Orsenigo, Schumpeterian patterns of innovation are technology-specific	451
Lee, K.R., The role of user firms in the innovation of machine tools: The Japanese case	491
Walsh, V., Design, innovation and the boundaries of the firm	509
Foss, K., Transaction costs and technological development: the case of the Danish fruit and vegetable industry	531
Lanjouw, J.O. and A. Mody, Innovation and the international diffusion of environmentally responsive technology	549
Jacobsson, S., C. Oskarsson and J. Philipson, Indicators of technological activities – comparing educational, patent and R&D statistics in the case of Sweden	573
Godin, B., Research and the practice of publication in industries	587
Shenhar, A.J. and D. Dvir, Toward a typological theory of project management	607
Hollenstein, H., A composite indicator of a firm's innovativeness. An empirical analysis based on survey data for Swiss manufacturing	633
Molero, J. and M. Buesa, Patterns of technological change among Spanish innovative firms: the case of the Madrid region	647
Clarysse, B., K. Debackere and M.A. Rappa, Modeling the persistence of organizations in an emerging field: the case of hepatitis C	671
Santarelli, E. and R. Piergiovanni, Analyzing literature-based innovation output indicators: the Italian experience	689
Kumar, N. and M. Saqib, Firm size, opportunities for adaptation and in-house R&D activity in developing countries: the case of Indian manufacturing	713
Gruber, H., Trade policy and learning by doing: the case of semiconductors	723
Sternberg, R.G., Government R&D expenditure and space: empirical evidence from five industrialized countries	741
Chen, C.-F. and G. Sewell, Strategies for technological development in South Korea and Taiwan: the case of semiconductors	759
Baldwin, J.R. and J. Johnson, Business strategies in more- and less-innovative firms in Canada	785
Lee, M., B. Son and K. Om, Evaluation of national R&D projects in Korea	805
Moed, H.F. and F.Th. Hesselink, The publication output and impact of academic chemistry research in the Netherlands during the 1980s: bibliometric analyses and policy implications	819

- Lee, Y.S., 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration 843
- Williams, R. and D. Edge, The social shaping of technology 865
- Joly, P.-B. and M.-A. de Looze, An analysis of innovation strategies and industrial differentiation through patent applications: the case of plant biotechnology 1027
- Colombo, M.G. and P. Garrone, Technological cooperative agreements and firm's R&D intensity. A note on causality relations 923
- Possas, M.L., S. Salles-Filho and J.M. da Silveira, An evolutionary approach to technological innovation in agriculture: some preliminary remarks 933
- Mowery, D.C. and R.N. Langlois, Spinning off and spinning on(?): the federal government role in the development of the US computer software industry 947
- Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R&D value-mapping' approach to evaluation 967
- Tanaka, Y. and R. Hirasawa, Features of policy-making processes in Japan's Council for Science and Technology 999
- Vivarelli, M., R. Evangelista and M. Pianta, Innovation and employment in Italian manufacturing industry 1013
- Joly, P.B. and V. Mangematin, Profile of public laboratories, industrial partnerships and organisation of R&D: the dynamics of industrial relationships in a large research organisation 901
- Mansfield, E. and J.-Y. Lee, The modern university: contributor to industrial innovation and recipient of industrial R&D support 1047
- Odagiri, H. and H. Yasuda, The determinants of overseas R&D by Japanese firms: an empirical study at the industry and company levels 1059
- Oyalaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi, Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria 1081
- Pisano, G.P., Learning-before-doing in the development of new process technology 1097
- Laursen, K., Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals 1121
- Swann, P. and M. Prevezer, A comparison of the dynamics of industrial clustering in computing and biotechnology 1139
- Daniels, P.L., National technology gaps and trade — an empirical study of the influence of globalisation 1189
- Klaes, M., Sociotechnical constituencies, game theory, and the diffusion of compact discs. An inter-disciplinary investigation into the market for recorded music 1221
- Teubal, M., A catalytic and evolutionary approach to horizontal technology policies (HTPs) 1161
- Brouwer, E. and A. Kleinknecht, Measuring the unmeasurable: a country's non-R&D expenditure on product and service innovation 1235
- Prencipe, A., Technological competencies and product's evolutionary dynamics a case study from the aero-engine industry 1261
- Howells, J., Rethinking the market-technology relationship for innovation 1209
- Furtado, A., The French system of innovation in the oil industry some lessons about the role of public policies and sectoral patterns of technological change in innovation networking 1243
- Tijssen, R.J.W. and J.C. Korevaar, Unravelling the cognitive and interorganisational structure of public/private R&D networks: A case study of catalysis research in the Netherlands 1277

Government

- Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard, Reforming Romania's national research system 107
- Yinnon, A.T., The shift to knowledge-intensive production in the plastics-processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel 163
- Shapira, P. and J.D. Roessner, Evaluating industrial modernization: Introduction to the theme issue 181
- Shapira, P., J. Youtie and J.D. Roessner, Current practices in the evaluation of US industrial modernization programs 185
- Oldsman, E., Does manufacturing extension matter? An evaluation of the Industrial Technology Extension Service in New York 215
- Luria, D. and E. Wiarda, Performance benchmarking and measuring program impacts on customers: lessons from the Midwest Manufacturing Technology Center 233
- Rosenfeld, S.A., Does cooperation enhance competitiveness? Assessing the impacts of inter-firm collaboration 247
- Kelley, M.R. and A. Arora, The role of institution-building in US industrial modernization programs 265
- Sabel, C.F., A measure of federalism: assessing manufacturing technology centers 281
- Feller, I., A. Glasmeier and M. Mark, Issues and perspectives on evaluating manufacturing modernization programs 309
- Kauko, K., Effectiveness of R&D subsidies – a sceptical note on the empirical literature 321
- Mian, S.A., Assessing value-added contributions of university technology business incubators to tenant firms 325
- Hartnell, G., The innovation of agrochemicals: regulation and patent protection 379
- Lanjouw, J.O. and A. Mody, Innovation and the international diffusion of environmentally responsive technology 549
- Sternberg, R.G., Government R&D expenditure and space: empirical evidence from five industrialized countries 741
- Chen, C.-F. and G. Sewell, Strategies for technological development in South Korea and Taiwan: the case of semiconductors 759
- Lee, M., B. Son and K. Om, Evaluation of national R&D projects in Korea 805
- Williams, R. and D. Edge, The social shaping of technology 865
- Joly, P.-B. and M.-A. de Looze, An analysis of innovation strategies and industrial differentiation through patent applications: the case of plant biotechnology 1027
- Possas, M.L., S. Salles-Filho and J.M. da Silveira, An evolutionary approach to technological innovation in agriculture: some preliminary remarks 933
- Mowery, D.C. and R.N. Langlois, Spinning off and spinning on(?): the federal government role in the development of the US computer software industry 947
- Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R&D value-mapping' approach to evaluation 967
- Tanaka, Y. and R. Hirasawa, Features of policy-making processes in Japan's Council for Science and Technology 999
- Teubal, M., A catalytic and evolutionary approach to horizontal technology policies (HTPs) 1161

- Furtado, A., The French system of innovation in the oil industry some lessons about the role of public policies and sectoral patterns of technological change in innovation networking 1243

Universities and basic research

- Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard, Reforming Romania's national research system 107
- Yinnon, A.T., The shift to knowledge-intensive production in the plastics-processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel 163
- Shapira, P. and J.D. Roessner, Evaluating industrial modernization: Introduction to the theme issue 181
- Shapira, P., J. Youtie and J.D. Roessner, Current practices in the evaluation of US industrial modernization programs 185
- Oldsman, E., Does manufacturing extension matter? An evaluation of the Industrial Technology Extension Service in New York 215
- Sabel, C.F., A measure of federalism: assessing manufacturing technology centers 281
- Feller, I., A. Glasmeier and M. Mark, Issues and perspectives on evaluating manufacturing modernization programs 309
- Mian, S.A., Assessing value-added contributions of university technology business incubators to tenant firms 325
- Penan, H., R&D strategy in a techno-economic network: Alzheimer's disease therapeutic strategies 337
- Hicks, D.M., P.A. Isard and B.R. Martin, A morphology of Japanese and European corporate research networks 359
- Leydesdorff, L. and É. Gauthier, The evaluation of national performance in selected priority areas using scientometric methods 431
- Godin, B., Research and the practice of publication in industries 587
- Clarysse, B., K. Debackere and M.A. Rappa, Modeling the persistence of organizations in an emerging field: the case of hepatitis C 671
- Moed, H.F. and F.Th. Hesselink, The publication output and impact of academic chemistry research in the Netherlands during the 1980s: bibliometric analyses and policy implications 819
- Lee, Y.S., 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration 843
- Williams, R. and D. Edge, The social shaping of technology 865
- Joly, P.-B. and M.-A. de Looze, An analysis of innovation strategies and industrial differentiation through patent applications: the case of plant biotechnology 1027
- Mowery, D.C. and R.N. Langlois, Spinning off and spinning on(?): the federal government role in the development of the US computer software industry 947
- Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R&D value-mapping' approach to evaluation 967
- Mansfield, E. and J.-Y. Lee, The modern university: contributor to industrial innovation and recipient of industrial R&D support 1047
- Oyelaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi, Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria 1081

- Laursen, K., Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals 1121
- Teubal, M., A catalytic and evolutionary approach to horizontal technology policies (HTPs) 1161
- Furtado, A., The French system of innovation in the oil industry some lessons about the role of public policies and sectoral patterns of technological change in innovation networking 1243
- Tijssen, R.J.W. and J.C. Korevaar, Unravelling the cognitive and interorganisational structure of public/private R&D networks: A case study of catalysis research in the Netherlands 1277

Management and planning

- Duysters, G. and J. Hagedoorn, Internationalization of corporate technology through strategic partnering: an empirical investigation 1
- Hutcheson, P., A.W. Pearson and D.F. Ball, Sources of technical innovation in the network of companies providing chemical process plant and equipment 25
- Macho-Stadler, I., X. Martinez-Giralt and J.D. Pérez-Castrillo, The role of information in licensing contract design 43
- Liker, J.K., R.R. Kamath, S. Nazli Wasti and M. Nagamachi, Supplier involvement in automotive component design: are there really large US Japan differences? 59
- Lynn, L.H., N.M. Reddy and J.D. Aram, Linking technology and institutions: the innovation community framework 91
- Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard, Reforming Romania's national research system 107
- Numagami, T., Flexibility trap: a case analysis of U.S. and Japanese technological choice in the digital watch industry 133
- Yinnon, A.T., The shift to knowledge-intensive production in the plastics-processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel 163
- Shapira, P. and J.D. Roessner, Evaluating industrial modernization: Introduction to the theme issue 181
- Shapira, P., J. Youtie and J.D. Roessner, Current practices in the evaluation of US industrial modernization programs 185
- Kelley, M.R. and A. Arora, The role of institution-building in US industrial modernization programs 265
- Sabel, C.F., A measure of federalism: assessing manufacturing technology centers 281
- Feller, I., A. Glasmeier and M. Mark, Issues and perspectives on evaluating manufacturing modernization programs 309
- Kauko, K., Effectiveness of R&D subsidies – a sceptical note on the empirical literature 321
- Mian, S.A., Assessing value-added contributions of university technology business incubators to tenant firms 325
- Hicks, D.M., P.A. Isard and B.R. Martin, A morphology of Japanese and European corporate research networks 359
- Hartnell, G., The innovation of agrochemicals: regulation and patent protection 379
- Coombs, R., P. Narandren and A. Richards, A literature-based innovation output indicator 403

- Leydesdorff, L. and É. Gauthier, The evaluation of national performance in selected priority areas using scientometric methods 431
- Walsh, V., Design, innovation and the boundaries of the firm 509
- Foss, K., Transaction costs and technological development: the case of the Danish fruit and vegetable industry 531
- Lanjouw, J.O. and A. Mody, Innovation and the international diffusion of environmentally responsive technology 549
- Jacobsson, S., C. Oskarsson and J. Philipson, Indicators of technological activities – comparing educational, patent and R&D statistics in the case of Sweden 573
- Shenhar, A.J. and D. Dvir, Toward a typological theory of project management 607
- Hollenstein, H., A composite indicator of a firm's innovativeness. An empirical analysis based on survey data for Swiss manufacturing 633
- Molero, J. and M. Buesa, Patterns of technological change among Spanish innovative firms: the case of the Madrid region 647
- Clarysse, B., K. Debackere and M.A. Rappa, Modeling the persistence of organizations in an emerging field: the case of hepatitis C 671
- Sternberg, R.G., Government R&D expenditure and space: empirical evidence from five industrialized countries 741
- Chen, C.-F. and G. Sewell, Strategies for technological development in South Korea and Taiwan: the case of semiconductors 759
- Baldwin, J.R. and J. Johnson, Business strategies in more- and less-innovative firms in Canada 785
- Lee, M., B. Son and K. Om, Evaluation of national R&D projects in Korea 805
- Lee, Y.S., 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration 843
- Colombo, M.G. and P. Garrone, Technological cooperative agreements and firm's R&D intensity. A note on causality relations 923
- Possas, M.L., S. Salles-Filho and J.M. da Silveira, An evolutionary approach to technological innovation in agriculture: some preliminary remarks 933
- Mowery, D.C. and R.N. Langlois, Spinning off and spinning on(?): the federal government role in the development of the US computer software industry 947
- Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R&D value-mapping' approach to evaluation 967
- Tanaka, Y. and R. Hirasawa, Features of policy-making processes in Japan's Council for Science and Technology 999
- Vivarelli, M., R. Evangelista and M. Pianta, Innovation and employment in Italian manufacturing industry 1013
- Joly, P.B. and V. Mangematin, Profile of public laboratories, industrial partnerships and organisation of R&D: the dynamics of industrial relationships in a large research organisation 901
- Mansfield, E. and J.-Y. Lee, The modern university: contributor to industrial innovation and recipient of industrial R&D support 1047
- Odagiri, H. and H. Yasuda, The determinants of overseas R&D by Japanese firms: an empirical study at the industry and company levels 1059
- Oyelaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi, Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria 1081
- Pisano, G.P., Learning-before-doing in the development of new process technology 1097

- Laursen, K., Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals 1121
- Swann, P. and M. Prevezer, A comparison of the dynamics of industrial clustering in computing and biotechnology 1139
- Klaes, M., Sociotechnical constituencies, game theory, and the diffusion of compact discs. An inter-disciplinary investigation into the market for recorded music 1221
- Teubal, M., A catalytic and evolutionary approach to horizontal technology policies (HTPs) 1161
- Prencipe, A., Technological competencies and product's evolutionary dynamics a case study from the aero-engine industry 1261
- Howells, J., Rethinking the market-technology relationship for innovation 1209
- Furtado, A., The French system of innovation in the oil industry some lessons about the role of public policies and sectoral patterns of technological change in innovation networking 1243

Measurement and evaluation

- Duysters, G. and J. Hagedoorn, Internationalization of corporate technology through strategic partnering: an empirical investigation 1
- De Marchi, M., G. Napolitano and P. Taccini, Testing a model of technological trajectories 13
- Lynn, L.H., N.M. Reddy and J.D. Aram, Linking technology and institutions: the innovation community framework 91
- Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard, Reforming Romania's national research system 107
- Numagami, T., Flexibility trap: a case analysis of U.S. and Japanese technological choice in the digital watch industry 133
- Shapira, P. and J.D. Roessner, Evaluating industrial modernization: Introduction to the theme issue 181
- Shapira, P., J. Youtie and J.D. Roessner, Current practices in the evaluation of US industrial modernization programs 185
- Oldsman, E., Does manufacturing extension matter? An evaluation of the Industrial Technology Extension Service in New York 215
- Luria, D. and E. Wiarda, Performance benchmarking and measuring program impacts on customers: lessons from the Midwest Manufacturing Technology Center 233
- Rosenfeld, S.A., Does cooperation enhance competitiveness? Assessing the impacts of inter-firm collaboration 247
- Kelley, M.R. and A. Arora, The role of institution-building in US industrial modernization programs 265
- Sabel, C.F., A measure of federalism: assessing manufacturing technology centers 281
- Feller, I., A. Glasmeier and M. Mark, Issues and perspectives on evaluating manufacturing modernization programs 309
- Kauko, K., Effectiveness of R&D subsidies – a sceptical note on the empirical literature 321
- Mian, S.A., Assessing value-added contributions of university technology business incubators to tenant firms 325
- Penan, H., R&D strategy in a techno-economic network: Alzheimer's disease therapeutic strategies 337

- Hicks, D.M., P.A. Isard and B.R. Martin, A morphology of Japanese and European corporate research networks 359
- Link, A.N., On the classification of industrial R&D 397
- Coombs, R., P. Narandren and A. Richards, A literature-based innovation output indicator 403
- Leoncini, R., M.A. Maggioni and S. Montresor, Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany 415
- Leydesdorff, L. and É. Gauthier, The evaluation of national performance in selected priority areas using scientometric methods 431
- Malerba, F. and L. Orsenigo, Schumpeterian patterns of innovation are technology-specific 451
- Lee, K.R., The role of user firms in the innovation of machine tools: The Japanese case 491
- Walsh, V., Design, innovation and the boundaries of the firm 509
- Foss, K., Transaction costs and technological development: the case of the Danish fruit and vegetable industry 531
- Lanjouw, J.O. and A. Mody, Innovation and the international diffusion of environmentally responsive technology 549
- Jacobsson, S., C. Oskarsson and J. Philipson, Indicators of technological activities – comparing educational, patent and R&D statistics in the case of Sweden 573
- Godin, B., Research and the practice of publication in industries 587
- Shenhar, A.J. and D. Dvir, Toward a typological theory of project management 607
- Hollenstein, H., A composite indicator of a firm's innovativeness. An empirical analysis based on survey data for Swiss manufacturing 633
- Clarysse, B., K. Debackere and M.A. Rappa, Modeling the persistence of organizations in an emerging field: the case of hepatitis C 671
- Santarelli, E. and R. Piergiovanni, Analyzing literature-based innovation output indicators: the Italian experience 689
- Kumar, N. and M. Saqib, Firm size, opportunities for adaptation and in-house R&D activity in developing countries: the case of Indian manufacturing 713
- Gruber, H., Trade policy and learning by doing: the case of semiconductors 723
- Baldwin, J.R. and J. Johnson, Business strategies in more- and less-innovative firms in Canada 785
- Lee, M., B. Son and K. Om, Evaluation of national R&D projects in Korea 805
- Moed, H.F. and F.Th. Hesselink, The publication output and impact of academic chemistry research in the Netherlands during the 1980s: bibliometric analyses and policy implications 819
- Colombo, M.G. and P. Garrone, Technological cooperative agreements and firm's R&D intensity. A note on causality relations 923
- Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R&D value-mapping' approach to evaluation 967
- Vivarelli, M., R. Evangelista and M. Pianta, Innovation and employment in Italian manufacturing industry 1013
- Joly, P.B. and V. Mangematin, Profile of public laboratories, industrial partnerships and organisation of R&D: the dynamics of industrial relationships in a large research organisation 901
- Mansfield, E. and J.-Y. Lee, The modern university: contributor to industrial innovation and recipient of industrial R&D support 1047

- Odagiri, H. and H. Yasuda, The determinants of overseas R&D by Japanese firms: an empirical study at the industry and company levels 1059
- Laursen, K., Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals 1121
- Swann, P. and M. Prevezer, A comparison of the dynamics of industrial clustering in computing and biotechnology 1139
- Daniels, P.L., National technology gaps and trade — an empirical study of the influence of globalisation 1189
- Brouwer, E. and A. Kleinknecht, Measuring the unmeasurable: a country's non-R&D expenditure on product and service innovation 1235
- Tijssen, R.J.W. and J.C. Korevaar, Unravelling the cognitive and interorganisational structure of public/private R&D networks: A case study of catalysis research in the Netherlands 1277

Countries

Canada

- Leoncini, R., M.A. Maggioni and S. Montresor, Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany 415
- Baldwin, J.R. and J. Johnson, Business strategies in more- and less-innovative firms in Canada 785

Denmark

- Foss, K., Transaction costs and technological development: the case of the Danish fruit and vegetable industry 531
- Laursen, K., Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals 1121

Europe

- Hicks, D.M., P.A. Isard and B.R. Martin, A morphology of Japanese and European corporate research networks 359

France

- Furtado, A., The French system of innovation in the oil industry some lessons about the role of public policies and sectoral patterns of technological change in innovation networking 1243

Germany

- Leoncini, R., M.A. Maggioni and S. Montresor, Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany 415

India

- Kumar, N. and M. Saqib, Firm size, opportunities for adaptation and in-house R&D activity in developing countries: the case of Indian manufacturing 713

International comparisons

- Duysters, G. and J. Hagedoorn, Internationalization of corporate technology through strategic partnering: an empirical investigation 1
- Hutcheson, P., A.W. Pearson and D.F. Ball, Sources of technical innovation in the network of companies providing chemical process plant and equipment 25
- Kauko, K., Effectiveness of R&D subsidies – a sceptical note on the empirical literature 321
- Penan, H., R&D strategy in a techno-economic network: Alzheimer's disease therapeutic strategies 337
- Hartnell, G., The innovation of agrochemicals: regulation and patent protection 379
- Malerba, F. and L. Orsenigo, Schumpeterian patterns of innovation are technology-specific 451
- Walsh, V., Design, innovation and the boundaries of the firm 509
- Lanjouw, J.O. and A. Mody, Innovation and the international diffusion of environmentally responsive technology 549
- Godin, B., Research and the practice of publication in industries 587
- Clarysse, B., K. Debackere and M.A. Rappa, Modeling the persistence of organizations in an emerging field: the case of hepatitis C 671
- Gruber, H., Trade policy and learning by doing: the case of semiconductors 723
- Sternberg, R.G., Government R&D expenditure and space: empirical evidence from five industrialized countries 741
- Colombo, M.G. and P. Garrone, Technological cooperative agreements and firm's R&D intensity. A note on causality relations 923
- Joly, P.B. and V. Mangematin, Profile of public laboratories, industrial partnerships and organisation of R&D: the dynamics of industrial relationships in a large research organisation 901
- Daniels, P.L., National technology gaps and trade — an empirical study of the influence of globalisation 1189
- Klaes, M., Sociotechnical constituencies, game theory, and the diffusion of compact discs. An inter-disciplinary investigation into the market for recorded music 1221

Italy

- De Marchi, M., G. Napolitano and P. Taccini, Testing a model of technological trajectories 13
- Leoncini, R., M.A. Maggioni and S. Montresor, Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany 415
- Santarelli, E. and R. Piergiovanni, Analyzing literature-based innovation output indicators: the Italian experience 689
- Vivarelli, M., R. Evangelista and M. Pianta, Innovation and employment in Italian manufacturing industry 1013

Israel

- Yinnon, A.T., The shift to knowledge-intensive production in the plastics-processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel 163

Japan

- Macho-Stadler, I., X. Martinez-Giralt and J.D. Pérez-Castrillo, The role of information in licensing contract design 43
- Numagami, T., Flexibility trap: a case analysis of U.S. and Japanese technological choice in the digital watch industry 133
- Hicks, D.M., P.A. Isard and B.R. Martin, A morphology of Japanese and European corporate research networks 359
- Lee, K.R., The role of user firms in the innovation of machine tools: The Japanese case 491
- Tanaka, Y. and R. Hirasawa, Features of policy-making processes in Japan's Council for Science and Technology 999
- Odagiri, H. and H. Yasuda, The determinants of overseas R&D by Japanese firms: an empirical study at the industry and company levels 1059

Korea

- Chen, C.-F. and G. Sewell, Strategies for technological development in South Korea and Taiwan: the case of semiconductors 759
- Lee, M., B. Son and K. Om, Evaluation of national R&D projects in Korea 805

Netherlands

- Leydesdorff, L. and É. Gauthier, The evaluation of national performance in selected priority areas using scientometric methods 431
- Moed, H.F. and F.Th. Hesselink, The publication output and impact of academic chemistry research in the Netherlands during the 1980s: bibliometric analyses and policy implications 819
- Tijssen, R.J.W. and J.C. Korevaar, Unravelling the cognitive and interorganisational structure of public/private R&D networks: A case study of catalysis research in the Netherlands 1277

Nigeria

- Oyelaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi, Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria 1081

Romania

- Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard, Reforming Romania's national research system 107

Spain

- Macho-Stadler, I., X. Martinez-Giralt and J.D. Pérez-Castrillo, The role of information in licensing contract design 43
- Molero, J. and M. Buesa, Patterns of technological change among Spanish innovative firms: the case of the Madrid region 647

Sweden

- Jacobsson, S., C. Oskarsson and J. Philipson, Indicators of technological activities – comparing educational, patent and R&D statistics in the case of Sweden 573

Switzerland

- Hollenstein, H., A composite indicator of a firm's innovativeness. An empirical analysis based on survey data for Swiss manufacturing 633

Taiwan

- Chen, C.-F. and G. Sewell, Strategies for technological development in South Korea and Taiwan: the case of semiconductors 759

UK

- Yinnon, A.T., The shift to knowledge-intensive production in the plastics-processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel 163
- Coombs, R., P. Narandren and A. Richards, A literature-based innovation output indicator 403
- Teubal, M., A catalytic and evolutionary approach to horizontal technology policies (HTPs) 1161

USA

- Liker, J.K., R.R. Kamath, S. Nazli Wasti and M. Nagamachi, Supplier involvement in automotive component design: are there really large US Japan differences? 59
- Yinnon, A.T., The shift to knowledge-intensive production in the plastics-processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel 163
- Shapira, P. and J.D. Roessner, Evaluating industrial modernization: Introduction to the theme issue 181
- Shapira, P., J. Youtie and J.D. Roessner, Current practices in the evaluation of US industrial modernization programs 185
- Oldsman, E., Does manufacturing extension matter? An evaluation of the Industrial Technology Extension Service in New York 215
- Luria, D. and E. Wiarda, Performance benchmarking and measuring program impacts on customers: lessons from the Midwest Manufacturing Technology Center 233

Rosenfeld, S.A., Does cooperation enhance competitiveness? Assessing the impacts of inter-firm collaboration	247
Kelley, M.R. and A. Arora, The role of institution-building in US industrial modernization programs	265
Sabel, C.F., A measure of federalism: assessing manufacturing technology centers	281
Feller, I., A. Glasmeier and M. Mark, Issues and perspectives on evaluating manufacturing modernization programs	309
Mian, S.A., Assessing value-added contributions of university technology business incubators to tenant firms	325
Link, A.N., On the classification of industrial R&D	397
Shenhar, A.J. and D. Dvir, Toward a typological theory of project management	607
Lee, Y.S., 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration	843
Mowery, D.C. and R.N. Langlois, Spinning off and spinning on(?): the federal government role in the development of the US computer software industry	947
Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R&D value-mapping' approach to evaluation	967
Mansfield, E. and J.-Y. Lee, The modern university: contributor to industrial innovation and recipient of industrial R&D support	1047
Pisano, G.P., Learning-before-doing in the development of new process technology	1097
Swann, P. and M. Prevezer, A comparison of the dynamics of industrial clustering in computing and biotechnology	1139

